

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: bmitchel@kodak.com (Brad Mitchell)
Subject: [9073] 49er comments.
Message-ID: <9605280051.AA04582@iiatasun.cba.Kodak.COM>

Well, I was reluctant to give the 49er a try. I've built spiders, NN1G MK-II's Cubic Inchers, etc, but the 49er was unique. It's so small , and If I really can run it off of a 9V battery, then it will be really portable. So I got one.
I've made 2 contacts now, one, 376 miles, and one 374.. hmm. And it's really neat. I put the whole thing together in about an hour.

I haven't packaged it up yet, because I'm still thinking..
Do I really need to compensate for the tx offset?
Do I want an integrated sidetone, or is the radio shack piezo enough, even though it is about 4KHz?
Do I want to modify the circuit for vfo? I could just look at some other designs , and add that.
Do I want to add an external cap and leave it vxo controlled, but have a panel mount cap?

Thinking about all that is giving me a headache. I am leaning toward getting a nice little plastic shaft to put on the end of the trip cap, and leaving everything as it is, with the exception of the piezo sidetone. You know there is something to be said for simplicity. I bought a Radio Shack Box.. Sorry Altoids fans, and it will fit the rig, and probably the battery as well. RS-270-221 for those interested. Anyway, I am having a blast with this project! 73 All , and see you aroud 7.040 somewhere.
Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Steve Miller <kg7pv@teleport.com>
Subject: [9050] 49er thump
Message-ID: <1.5.4.32.19960527071537.00666528@mail.teleport.com>

Hi! Another 49er lives tonight. Using a version A board and junk box parts (except for Q1 and the LM380) I am getting .6 watts out (12 volts). Have done the torroid mods to RFC1 and 4 but left C20 at 150 - didn't tune correctly with the 180 pf mod. Will try the output filter mod when I get some 470 caps. While fiddling I smoked the LM380 (ouch!) and have replaced it with a LM386. Have a fairly crisp thump audible when the key closes. Has anyone played with the muting circuit or had a similar problem. Have not tried it on a 9 volt bat as I don't have any in the shack. Rig is

great otherwise. Now to the books for a sidetone circuit. 73
Steve Miller KG7PV
Portland, Or (packet kg7pv @ k7iqi.or.usa.noam)
Norcal # 308, QRP-L #109

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: "Patrick Tendam" <buckeye@alpha.wcoil.com>
Subject: [9066] A note from Buckeye Electronics
Message-ID: <199605272200.SAA21667@alpha.wcoil.com>

Just to save some disappointment in the future, I am sold out of verniers and ball drives. I'm not sure when I'll restock these items.

Thanks to all who bought so much at Dayton!

72, Pat, WS8T

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: tru_blu@omn.com (Raymond Tougas)
Subject: [9075] Any Sierra Users?
Message-ID: <96052719200729633@omn.com>

Hi,

My name is Ray. I'm a long time backpacker/QRP'er. I'm seriously considering buying/building the Sierra. Have any of you build and/or used one of these? I'd appreciate your observations before I plunk down my hard-earned overtime money!

>Radio-Ray ..._ ._
N0EKU

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: NYOUNG@nova.wright.edu
Subject: [9048] Cats, whiskers and F2NB
Message-ID: <01I56J0PFC9E8X6B6N@nova.wright.edu>

The mother and the kittens are doing fine. Tomorrow the youngest son wants to introduce the mother to Ren Hoek. Andy has a Ren action figure (?) that he keeps around when he needs a monster for make-believe with his cousin. We've been looking for a Stim-o-saurus

to go along with Ren, but so far it's been a no win situation. By the way, there are four kittens, three calicos (thus, three females) and one of undeterminant gender. Ma cat has been eyeing the door to the radio rumbus (there's a wall between the rest of the outhouse facilities and the area where the radios live). I expect she'll be trying to move the kittens there before long.

I had a neat little surprise this evening when I spotted F2NB on 40m. The Argosy was set at 5 watts on the dipole (a more or less east-west pattern). I answered his CQ and he came right back with a 559. I gave him a 569 ('cause he was above the noise an s-unit more than the sidetone) and he was happy. Merci pour le QS0 et 73. Also heard SP7HT, but he didn't hear me at the 5 watt level. In fact, he didn't seem to hear anyone and the frequency remained silent a good five minutes before some state-side guy fired up his KW and started calling CQ DX. Or is that "Si, cue de eggs." Hmmm...

Then there are these sparks. It's been raining off and on for the past couple hours. Every now and then every antenna seems to catch a big batch of ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ and then it drops off. I suspect that it's one of the local power hegemony's insulators getting crusty. Or it's what I think was once called "rain static," like when the rain starts to fall across the antoona and make little sparks appear. Leetle tiny sparks, you simpering eediot! Wonder if that ain't related to the "curious occurance" of some recent threading.

Once when I was a kid, back when Hallicrafter S38Es cost around \$71.25 (I remember the price exactly, 'cause Dad made sure that I did), I noticed that I could get a helluva shock out of the antoona wire when the radio's AC cord was put in the plug one way and not the other. Ah, the days of AC/DC radios. And not the ones that you can hear coming up the parking lot drive for miles. Boom-boom, boom.... boom-boom, boom.... boom-boom, boom...

Or the time that I had the PA cage pulled off the ol' Eico 753 (I looked for one at the Hamvention 'cause I was in an S&M bag then) and reached inside to adjust the position of one of the parasitic chokes. With the power on. And the keying line in my other hand, ground included. I remember screaming. Then I was on the floor, feeling as if I'd been thrown out of gear and was coasting to a stop. I think it was then that I decided to go into ORP serious big time hurry up, you joe you.

And by the way, Prashant Jain (VU3PSG) who dined with us at one of the banquet tables said the other day that (a) he was amazed at how friendly all the US hams are with each other. "It is as

if you had known each other a long time, as if you weren't all strangers." And then, as one of my co-wookies told me after seeing Prashant at the Hara Ventionplex, Prashant could not believe all the acreage spent up in trying to sell old Eico 753s and Hammarlund SP-600s. It boggled his mind, so it seems. And that was before he saw the inside displays. The boy ain't recovered yet. But I'm opening the PA cage on an old DX60 so he can get back to reality.

And Dr. Rick is right: sometimes you have to remember that you ain't gonna die outright from a crummy hotel deal. Not when my sister's got MS, a brother-in-law had muscular dystrophy (howz-come it ain't "MD"?), and, given the immensity of the chemical equation that allows us to breath and comment on it, it's a wonder more stuff don't go wrong.

73

Nils

WB8IJN +c

P.S.: That russkiiya klyuch that I got off Dick Pascoe works real nice. Wish I'd bought a couple others from his collection of glasnost-icized keys. Hmmm... I'll have Ren write him a check.

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996

From: n5zgt@swcp.com (Brian Mileschosky)

Subject: [9069] FIRST NorCal 49'er QS0!!

Message-ID: <199605272337.RAA05133@kitsune.swcp.com>

WOW, has my day been made! I built the NorCal 49'er about 2 days after NorCal's QRP To The Field contest. Last week I finally got it mounted in an Altoids case, and I made my contact with it today!!

I called CQ twice on 7.040 MHz, and W7SQT in Cheyenne, Wyoming came back to me. He gave me a 559 with my 250 milliwatt XCVR! My QTH is Albuquerque, New Mexico, so I know I completed the requirement for the 1000 Miles per Watt award. I have not calculated the exact distance between us, but I will do that tomorrow (When I receive my Garmin 45 GPS unit!). The antenna I used was a 40 meter inverted-vee up around 20-30 feet.

Ironically, he was using 100 watts, and I only 250 mW! I wonder what he felt like when that was copied down on his piece of paper, HI.

Ladies & Gents, if you do not have a NorCal 49'er, BUY ONE! It is an excellent little 250 milliwatt transceiver that runs off a 9 volt battery.

Visit the NorCal web page for more information, or send me an E-Mail and I'll tell ya all about it.

I'm looking foward to taking on a backpacker sometime and using it. It will be interesting.

Happy Memorial Day, everybody. Thanks to those who risked and gave their lives for letting us live in this fine country.

72,
Brian, N5ZGT/QRPP!!

Boy Scouts of America	Amateur Radio
JASM -Troop 41	N5ZGT
Albuquerque, N.M.	Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA
O.A. Lodge 66 <-W-W-W-<<	Internet: n5zgt@swcp.com

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: NYOUNG@nova.wright.edu
Subject: [9071] FRS Antenna tuners, merengue +c
Message-ID: <01I57PCN0K028X6K4A@nova.wright.edu>

Someone had asked about (and gotten responses on) the GRC109 radio set that Fair Radio Sales has had in their catalog for a while now. Now that that is settled, it might be of interest to some that Fair Radio Sales also has (in their recent WS-96 catalog) an item on page 3 of some interest...

"100 Watt Transmatch"
"Collins 100 watt transmatch assembly with Johnson 229-201
10 uH roller inductor with vernier dial, 600 pf variable
capacitor, and two banks of five 100 pf HV ceramic capacitors
Also hi-low antenna impedance switch and a 0-500-1k pf
Loading capacitor switch for adding parallel capacitance.
Two N connections on rear; 5.3x6.3x7.5. 7 lbs.
[Item number]#CU737/180U2. Used, \$75."

If I didn't have enough antenna stuff already, I'd be tempted to get one of 'em just to have sitting on the floor next to the kittens. One thing's for sure: I won't need to worry about a ground system, what with all the rain we've been getting here. The water table and chair must be about 4 feet below the grass. I say that 'cause I

had to go down in the basement during the great toilet/commode replacement exercises and found a toad on the steps. Yeah, a toad. Like we ain't got enough of 'em at work.

Cindy was saying that this has been a weird weekend. Kittens in the radio shack. A toad in the basement. A busted commode. Can't get much better than this, can it, Ren?

At least the cows are sane.

73
Nils
WB8IJJ +c

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Tim English <dx@sun.tir.com>
Subject: [9062] FS: 40m xtals
Message-ID: <2.2.32.19960527201632.00694f90@tir.com>

Found while cleaning out my closet:
Five 40m PR crystals. Frequencies are as follows:

7110 khz
7119 khz
7128 khz
7189 khz
7194 khz

Would these be of any use to any of you QRP'ers ? Make me an offer.

--
Tim

Amateur Radio Station: WB8OGM (since 1972)
Email: dx@tir.com

"Sometimes imagination is better than knowledge"

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Greg Buhyooff <buhyooff@vt.edu>
Subject: [9067] FT-900AT ** SOLD **
Message-ID: <199605272256.SAA19316@sable.cc.vt.edu>

The FT 900AT is SOLD.
Gregory J. Buhyoff
Julian Cheatham Professor
Dept. of Forestry
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

Phone: 540-231-5148
E-mail Buhyoff@vt.edu

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: [9060] Hoot owl sprint
Message-ID: <Pine.SUN.3.93.960526224147.15779B-100000@ume>

Well, the most notable was the noise! Even with 2 S units of local noise removed with my new JPS ANC 4 on the front and my venerable NIR 10 at the end is was a tough haul up here in the frozen north.
Computer glitches got me at the beginning.....my apologies to K5ZTY!
2 q's before "official start" with guys I knew I would not hear later.....I was correct.
Not counting those two: 12 qs on 40 with 5 spc and 13 qs on 20m with 9 spc. 5 watts, so.....

119 qso points * 7 * 14 = 11662 I think. Worked AB5OU and WA8LCZ from QRP-L.

Dr. Rick Zabrodski BSc, MD, CCFP(E) MRO * VE6GK
Clinical Assistant Professor * NorCal 519 ARCI 7650 GQRP 8329
Faculty of Medicine, Univ. of Calgary * "Power is no substitute for skill"

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Bob_Tellefsen-CNSE97@email.mot.com
Subject: [9057] HootOwl Sprint
Message-ID: <M854401.002.2qj11.1.960527171349Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

(Copy of report sent to Cam, N6GA)
N6GA de N6WG
Hi, Cam;

My first HootOwl sprint. Real rough conditions, like pulling teeth to drag out a few QSOs. Enjoyed it, but in a way I'm glad it only lasted 4 hours, hi. Really didn't hear that many ARCI member stations taking part.

Toward the end I was reduced to running down non-contest stations just to put something in the log. Do we need more publicity for this? The only notice I've seen was the one you put out on Thursday, May 23 on QRP-L.

Station consisted of old Kenwood TS180 at 5W out. Antenna was one or two diamond loops with vertical polarity. I can select either one or run them in phase as the situation requires. Most of the time ran on just one.

I also have two low-noise receiving antennas. One is a dipole nailed on a wood fence about eye height, and one is from a QST article last Fall. They sure help at times when the main vertical antennas noise up.

Results as follows:

Member contacts	10 x 5 pts	=	50 pts
Nonmembers contacts	6 x 2 pts	=	12 pts
	Total pts	=	62
Multiplier for 5 watts	x7		
	Score		434 pts

Sorry I didn't hear you. Would like to have worked you.
72/73, Bob N6WG

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: "W. Dennis Zeares" <k3ets@why.net>
Subject: [9076] New home email address for K3ETS
Message-ID: <19960528013246339.AAA171@dal1107.why.net>

I have a new email address for my home:
k3ets@why.net....
my work and qrp-l email address remains:
wdzeares@aud.alcatel.com...
oh yes TMPS... well the combination of low power plus poor antenna means that I just don't seem to be heard by very many people... but maybe the band will get better...
Y'all with good ant. systems please listen for the real weak signals... thanks,
72/73 K3ETS Dennis, Dallas

K3ETS TMPS 1996 Qs=009 States=08 Confirmed+5 DX=00
SD CO TN CA NM IL MI PA

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: "Robert K. Berlyn" <"hb_electronics"@businesson.com>
Subject: [9064] New Small Parts Vendor
Message-ID: <31AA3704.2F30@businesson.com>

Guys and Girls, Fellow QRP'ers and Home Brewers:

Pardon the bandwidth, but I wanted to announce a new small parts business run by a QRP'er for QRP'ers and the general ham community.

I am calling it "HB Electronics" (HB = Home Brew). My mission is to provide the Home Brew and QRP community with electronic parts and supplies and a reasonable price. Everything I sell is either used by me personally, or at the least inspected by me. I will be happy to convey any knowledge I might have about the use of any products I carry, although I am not an expert on everything. Additionally I plan to ensure that items on the catalog sheet are actually in stock to make sure shipping is fast.

Once you have my catalog sheet you will notice that it is somewhat limited as far as selection goes. As you can imagine I had to compromise between what I think you want, what I can afford to stock, what I can stock at a reasonable resale price, plus a couple of hundred other considerations. I am making a concerted effort not to put myself out of business before I begin. I will be adding new products as rapidly as I can. If there is something you need that is not on the sheet, let me know and I will be glad to get it for you.

Orders must be sent to me by US Mail for the moment. I am researching a bank with reasonable fees for credit cards. I hope in the not-to-distant future to be able to accept the usual VISA and Master Card, if I can and keep the prices down at the same time. Once this is accomplished I should be able to accept orders on the net or by phone / fax.

For a catalog sheet, updates and specials as they are available contact me at:

E-Mail : HB.Electronics@BusinessOn.Com

Snail Mail: HB Electronics

43 Rector Street
East Greenwich, Rhode Island 02818

Thanks for taking the time to read this,

72's.....

Bob Berlyn - N1PWU
QRP-L # 161
NE-QRP # 226

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: "Peter C. Wotherspoon" <Peter.C.Wotherspoon@hydro.on.ca>
Subject: [9052] QRP radio, Atlas 110??
Message-ID: <Pine.SUN.3.91.960527090001.26451A-1000000@strong.Hydro.ON.CA>

Well I blew the finals on this thing. (Too hi SWR, for only an instant!)
I was taking a gawk at the xistr finals and noticed a bypass for the
radios w/o the power options. (I doubt if anyone didn't but the 200 watt
model). Anyway I was looking for a radio for FD that wud do 5watts, and
voila, (or should I say "pouff"), I was presented with a solution,
almost. I think it should put out more than the 3 watts its doing now.
I know, what's the big diff between 3 and 5 watts?
Has anyone monkeyed with this radio?
Any suggestions for replacements for the finals (CD2435 s ?)
I think Motorola has something.

Also, wrt the MJF 259 antenna analyser.
OK I can get a freq counter < 100 bucks.
I then need a signal generator.
Now what about a resistance meter?

Does anyone know about a homebrew version/design reference for this
kind of meter, (or similar). I really wud like the meter , but Can \$'s
are steep , > 450.00.

I might as well buy a TH6DXX, arggg!
This device doesn't seem that complicated. I really enjoy using it tho,
(borrowed unit!).

So any comments wrt to the unit, (is the resistance meter useful?)
The AEA unit doesn't seem to have the resistance meter.
The Auteq features?

Peter ve3gyy,whitby on,ca.

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Jeff Gold <JMG@tntech.edu>
Subject: [9056] recharbeable C cells
Message-ID: <01I574V30044A3CB0E@tntech.edu>

anyone know a good source for rechargeable C cells? I need about
10 of them and a charger. The local stores are real expensive.

trying to get a protable 2 meter SSB set up together.. going to
the top of a mountain in the Smokeys to test some antennas.

72
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: bwhitt@w8dc.#swmi.mi.usa.noam
Subject: [9045] rs dsp mods
Message-ID: <30481_BWHITT@w8dc.bbs>

R:960527/0240z @:W8DC.#SWMI.MI.USA.NOAM [GR, MI] #:16417 \$:30481_BWHITT Z:49504

has anyone looked into new code to improve the rs dsp?
that might be a good project for a software guru.
they are cheap now, i just found one locally for 35 bucks.
ill get it at lunch time.

73
barry
wb1edi

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: pcw12@ix.netcom.com (Phil Wheeler)
Subject: [9049] St. Louis Tuner
Message-ID: <199605270523.WAA27536@dfw-ix8.ix.netcom.com>

After finding my errors -- as usual, some unsoldered components on the PC
board -- the tuner works great. I'm planning to use it with my OHR-400

later this week while in the Santa Rosa area (likely with my mobile antennas). This will be my first foray into operating with self-built equipment on qrp (have used large MFJ tuner until now). It will bring back the days when all was home brew (my first tuner was a Pi network in a wooden box with a big RF ammeter used for tuneup) or converted WWII Arc-5 (commercial rigs were very pricy).

Thanks due to those who offered advice on my SWR bridge problem, notably Stan (ak0b) of the St. Louis qrp group -- who, in fact, identified several possible problems, of which one was THE problem.

Phil w6tuh

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: joel.luyten@infoboard.be (joel luyten)
Subject: [9058] TS-50S keyer build-in, anyone?
Message-ID: <199605271719.TAA15225@glen.ib.be>

Hello there,
I would like to buy a TS50S but i want to build in a keyer to keep it as portable as possible. Does anyone did this before? Or can anyone advise me on a keyer that is small enough to put in to the TS50? I also would like to have a narrower cw filter as the optional 500 Hz. I used to work with 100-250Hz filters and 500Hz seems to wide to me. Any ideas? I could buy the IC-706 ofcourse but the problem is that we have a bad service here in Belgium. If something happens to the rig i have to run to Germany or Holland to get it fixed. The Kenwood importer for Europe is just a few km's away and gives an outstanding service. It's a pitty that the TS50 is not having those nice options like a build-in keyer or 250Hz filters. I hope they are working on= it.

Tnx for reading this and i hope to get a few answers.
73 from Jo=EB1 ON4AIL,

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: bob.roach@sourcebbs.com (BOB ROACH)
Subject: [9065] RE:Confused about current
Message-ID: <8C163EC.000103934F.uuout@sourcebbs.com>

JG>-Current flow as i have understood it is from negative (with excess supply
>-of electrons) to positive (where there is a deficit). SO in a tube
>-circuit, for instance, the cathode is negative (supplies current in form of

>-surplus of electrons) and the plate is positive (deficit of electrons,
>-attracts current from cathode). Dandy.

Hi Joel,

What follows is my "two cents" worth on this subject.

Some confusion arises from the fact that some of the conventions were established before the true nature of electricity was understood and some were established afterward.

Electrons flow from negative to positive, but in the old way of thinking current (conventional current) flowed from positive to negative.

JG>-SO why do i then see current described as flowing from + to - in the book?
>-And why is the positive side of a connector considered "hot" and the
>-negative, ground side cold? Isn't it the negative side where the electrons
>-are coming from?? What gives? Sorry this is so elementary but i honestly
>-don't get the convention.

On most electronics schematics the negative side of the circuit is considered ground and the ground symbol is used instead of drawing the return path. This makes it difficult to look at the circuit from the electron current point of view. Most people find it easier to view the circuit from the conventional current point of view. Either method works fine as long as you do not change systems in mid-circuit. Everyone of course has there owe preffered way of doing this you will have to decide which works best for you.

Since both work equally well don't get hung up on right and wrong, just pick the one that gets the job for you and move on with the job at hand.

Good luck to your son, look forward to hearing him on the air soon.

73 de KE4QOK

Bob

* SLMR 2.1a * Anything worth doing is worth doing right.

This message originated from: ----- Selective Source BBS
----- Virginia Beach, Virginia
----- (804) 471 6776

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: launerb@crl.com (William H. Launer)

Subject: [9074] RE:Confused about current
Message-ID: <v01520d02adcffe841bd5@[192.0.2.1]>

This question came up in the 1950's when I was in engineering school. The engineering convention for circuit analysis was that current flowed from (+) to (-), but the military schools had decided that it would be easier for their students to understand "electron flow" instead of conventional "current flow". Since we had a lot of veterans (who had attended the service schools) in our classes, it was confusing to them in the beginning. As our professors pointed out, when you set up the mathematical equations for circuit analysis, you make assumptions for polarities, and current directions. If your answers come out negative, you merely made a wrong assumption. The main thing is (as Bob, KE4QOK) pointed out, don't change in mid-analysis.

I have the same problems understanding "hole flow" and "electron flow" in semiconductors!

73, Bill - wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-l #279 qrp arco #3551

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [9046] RE: Cornplaints, big files...
Message-ID: <Pine.OSF.3.91.960527001212.22161C-100000@saturn.acs.oakland.edu>

On Sun, 26 May 1996 WJ4PRandy@aol.com wrote:

> Good one Nils...
> I wonder how many got the Ren Houk reference?...

I dunno... but we all would have been much happier if someone had simply said, "You eeeeeeeediots!!!"

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [9070] Re: FIRST NorCal 49'er QSO!!
Message-ID: <Pine.OSF.3.91.960527203056.24481C-100000@saturn.acs.oakland.edu>

On Mon, 27 May 1996, Brian Mileschosky wrote:

> WOW, has my day been made! I built the NorCal 49'er about 2 days after
> NorCal's QRP To The Field contest. Last week I finally got it mounted in an
> Altoids case, and I made my contact with it today!!

Congratulations Brian! Isn't that a great feeling?

> Ironically, he was using 100 watts, and I only 250 mW! I wonder what he
> felt like when that was copied down on his piece of paper, HI.

I hope he felt good that his superior station was the reason he even
HEARD your puny signal. Everyone repeat after me, "QRPers are HUMBLE.
We do not gloat."

Thanks. :-)

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: n5zgt@swcp.com (Brian Mileschosky)
Subject: [9072] Re: FIRST NorCal 49'er QSO!!
Message-ID: <199605280049.SAA08993@kitsune.swcp.com>

>
>> Ironically, he was using 100 watts, and I only 250 mW! I wonder what he
>> felt like when that was copied down on his piece of paper, HI.
>
>I hope he felt good that his superior station was the reason he even
>HEARD your puny signal. Everyone repeat after me, "QRPers are HUMBLE.
>We do not gloat."

Why can't we gloat? Why do we have to be humble? This is an awesome
accomplishment to me to talk with a person so far away with just 250 mW and
a radio that I built! That's around 1940 miles per watt! It may be a puny

signal, but, hey, it did just what his 100 watt rig could do.

THAT is what Ham Radio is all about, and I love that thrill. And I, along with many other people, enjoy telling people about such great accomplishments.

72 Everybody,

Brian, N5ZGT

Boy Scouts of America	Amateur Radio
JASM -Troop 41	N5ZGT
Albuquerque, N.M.	Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA
O.A. Lodge 66 <-W-W-W-<<	Internet: n5zgt@swcp.com

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Ahlgren@NCSBSR020U.ntc.nokia.com (Ahlgren Jukka (NTC/BS-OU))
Subject: [9051] RE: Power output calc decibel/pwr ???
Message-ID: <1996May27.144434.1604.25090@ntcit-mmta7.ntc.nokia.com>

>From: njc
>To: Low Power Amateur Radio Discuss
>Subject: Power output calc decibel/pwr ???
>Date: 27. May 1996 6:38

>Now I started thinking and looking. If it's a 3db attenuation, I
>lose half my power. OK no problem so far. Found the equation and
>all which I will illustrate: $dB = 10 \times \log_{10} \times (p2/p1)$
>the math all works (thank goodness <g>)
>
>What happens though if I know the dB attenuation and the input power
>how do I solve for P2? (should've paid more attention in algebra
>class)
>
>Any help would be appreciated.
>
>Thanks,
>Nick
>

Hi Nick!

$P2 = 10^{(db/10 + \log P1)}$

73, Jukka OH6SC

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: Stan Skelton <sskelton@c1n.etc.bc.ca>
Subject: [9053] Re: QRP Dx Info
Message-ID: <Pine.3.89.9605270743.B3040-01000000@sparky>

Hi Peter...I, for one would be very interested in any submissions from
"over the pond"! Glad you find the list interesting (despite the few
idiots who clutter both cyberspace and the ether).
TtFn....Stan T.M. VE7 SKT QRP-L #34

From owner-qrp-l@Lehigh.EDU Mon May 27 23:31:00 1996
From: Doug Hall <doughall@nando.net>
Subject: [9047] Re: Radio Shack DSP Mods
Message-ID: <199605270413.AAA29861@merlin.nando.net>

>>
>>
>>The Radio Shack DSP uses a Texas Instruments TMS320C17 or a variation
>>thereof. It appears to be mask programmed, meaning the code is put in ROM
>>when the chip is manufactured, so there's no way to modify the existing code.
>>73,
>>Doug Hall, KF4KL
>>
>>
>>
>
>Thanks for the input Doug. I note that TI has an EPROM version, the
>TMS320E17. I have no idea how pricey it is. I also have no idea if R-S would
>make their code available as a starting point. (I assume that the program in
>ROM can't be read - at least without the TI production test codes that use
>the memory space above 0F9FH!!!)
>Does the R-S unit use the 40 pin or the 44 pin version of the TMS320C17? Is
>it socketed?

When last I checked you could get a 320E17 for around \$20. I doubt if RS
would give out code, but there is plenty of 320 code floating around in the
public domain for various filter types and noise reduction. The DSP in the
RS unit is the 40 pin version, and is not socketed. It should be possible to

yank the mask programmed part out and put in a socket for the E17.

Whether it's worth the effort is another issue. The A/D-D/A in the RS DSP isn't particularly great, and the circuit board is fairly low quality. But it does provide a DSP engine in a small package, so maybe it's worth somebody's time to recode the thing.

73,
Doug Hall, KF4KL

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: N5EM@aol.com
Subject: [9054] Re: Radio Shack DSP Mods
Message-ID: <960527111733_543340868@emout08.mail.aol.com>

In a message dated 96-05-26 23:39:56 EDT, you write:

>
>Who will be first to add DSP to the 40-9er? Hi.
>
>

I can answer that. Wayne, your ears burning?

Ed

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: daxe@satscan.com (Dave Axe)
Subject: [9055] Re: Radio Shack DSP Mods
Message-ID: <199605271552.IAA11549@satscan.com>

Doug wrote:

>When last I checked you could get a 320E17 for around \$20. I doubt if RS
>would give out code, but there is plenty of 320 code floating around in the
>public domain for various filter types and noise reduction. The DSP in the
>RS unit is the 40 pin version, and is not socketed. It should be possible to
>yank the mask programmed part out and put in a socket for the E17.
>

>Whether it's worth the effort is another issue. The A/D-D/A in the RS DSP
>isn't particularly great, and the circuit board is fairly low quality. But
>it does provide a DSP engine in a small package, so maybe it's worth
>somebody's time to recode the thing.

>

>73,

>Doug Hall, KF4KL

>

>

Many thanks for the info Doug.

I just read (and re-read) W9GR's article in the Sept 1992 QST entitled
"Low-Cost Digital Signal Processing for the Radio Amateur." In it the author
makes a good suggestion for changing the CW filter center frequency and
bandwidth - simply vary the DSP clock frequency.

In the example given, the initial clock frequency used was 20 MHz and the CW
filter was centered around 750 Hz. By using a 16 MHz clock xtal, the center
frequency drops to 600 Hz. The filter bandwidth is also reduced by an equal
factor. The clock frequency can be varied between 5 and 20 MHz with the DSP
chip used in that QST article. It's part of the same family as the one in
the R-S DSP unit, so same range should apply. The R-S DSP unit uses a 20.48
MHz clock.

Just for fun I calculated what a change from the 20.48 MHz xtal to a
different clock would do in the R-S unit, using commonly available
microprocessor xtal freqs. I'll use the R-S specification for their "Narrow
CW" mode.

Clock Freq. (MHz)	Center Freq. (Hz)	Bandwidth (Hz)
-----	-----	-----
20.48	750	306
18.432	675	275
16.0	586	239
15.0	549	224
14.318 *	524	216
12.0	439	179
11.0592	405	165

* I hope that's not your favorite net freq!

72 es gl de w7agj

Dave Axe, Satscan Corporation / Cascade Technology

PO Box 1109, Sultan WA 98294-1109 (360)-793-3433 FAX: 793-0359

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Hank Kohl <k8dd@sun.tir.com>
Subject: [9059] Re: rs dsp mods
Message-ID: <9605271756.AA27806@tir.com>

At 02:40 05/27/96 UTC, you wrote:

>R:960527/0240z @:W8DC.#SWMI.MI.USA.NOAM [GR, MI] #:16417 \$:30481_BWHITT Z:49504

>
> has anyone looked into new code to improve the rs dsp?
> that might be a good project for a software guru.
> they are cheap now, i just found one locally for 35 bucks.
> ill get it at lunch time.
> 73
> barry
> wb1ledi
>

Wow....software guru? cheap? 35 bucks? There must be an over
abundance
of software guru's at the "home office" in Grand Rapids. They don't go that
cheap
in S.E. Michigan!

*/ Hank Kohl K8DD k8dd@tir.com
*/ MI-QRP QRP-ARCI G-QRP NorCal
*/ ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: ka0yos@arn.net
Subject: [9061] Re: ShortHand CW
Message-ID: <199605271913.0AA13079@arnet.arn.net>

>I BELIEVE THESE ARE CALLED "CUT NUMBERS" AND ARE DESCRIBED SOMEWHERE IN
>OP MANUALS.....a IS SHORT FOR THE NUMBER 1, AS IS 216 OR 2A6....
>GOOD LUCK !
>JOHN

Would someone be kind enough to send all of them to the list? If a = 1 and
n = 9. I don't see a real partern here.

Thanks and 72,
Joe ka0yos

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [9063] Re: ShortHand CW
Message-ID: <Pine.OSF.3.93.960527134359.9894A-100000@duke.usask.ca>

I think I remember seeing them mentioned in the 1995 ARRL Handbook.

Brian.

On Mon, 27 May 1996 ka0yos@arn.net wrote:

>
> >I BELIEVE THESE ARE CALLED "CUT NUMBERS" AND ARE DESCRIBED SOMEWHERE IN
> >OP MANUALS.....a IS SHORT FOR THE NUMBER 1, AS IS 216 OR 2A6....
> >GOOD LUCK !
> >JOHN
>
>
> Would someone be kind enough to send all of them to the list? If a = 1 and
> n = 9. I don't see a real partern here.
>
> Thanks and 72,
> Joe ka0yos
>
>
>

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
+-----+
```

From owner-qrp-1@Lehigh.EDU Mon May 27 23:31:00 1996
From: Johnson_Dan@AAC.COM
Subject: [9068] Re: ShortHand CW
Message-ID: <9605280222.aa0325@SMROUTER.AAC.COM>

Joe KA0YOS wrote:

> Would someone be kind enough to send all of them to the list? If a = 1
> and n = 9. I don't see a real pattern here.

Someone did, so I won't repeat. The pattern is reduction of time-consuming elements: dah is the longest. "1" has four dahs, so di dah elides the dahs. Likewise "9" and dah dit. Zero is all dahs, hence dah.

This is the majority of "cut codes" used in amateur contests (and casual conversation). Some folks stick to just "T". Anyone who uses others with strangers is, IMHO, asking for miscommunication.

For completeness, "R" means decimal, as in 7R040 (7RT4T for the cut crazy). Why? Probably because it can't be confused for a digit or cut code digit, di dah dit is a reasonable shorthand for di dah di dah di dah, and nothing else has sufficient context to disambiguate.

72 de KC4EWT
Johnson_Dan@aac.com